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RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/073,054

DATE: 03/01/2002
TIME: 10:52:16

Input Set : A:\EP.txt
Output Set: N:\CRF3\03012002\J073054.raw

3 <110> APPLICANT: Garvan Institute of Medical Research
 4 HERZOG, Herbert
 6 <120> TITLE OF INVENTION: Novel G-protein coupled receptor-encoding gene and
 diagnostic uses
 7 therefor
 9 <130> FILE REFERENCE: 1871-132 (93702-CIP/MRO)
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/073,054
 C--> 11 <141> CURRENT FILING DATE: 2002-02-12
 11 <150> PRIOR APPLICATION NUMBER: US 09/308,696
 12 <151> PRIOR FILING DATE: 1999-06-11
 14 <150> PRIOR APPLICATION NUMBER: PCT/AU98/00805
 15 <151> PRIOR FILING DATE: 1998-09-24
 17 <150> PRIOR APPLICATION NUMBER: AU P09386
 18 <151> PRIOR FILING DATE: 1997-09-24
 20 <160> NUMBER OF SEQ ID NOS: 20
 22 <170> SOFTWARE: PatentIn version 3.1
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 2822
 26 <212> TYPE: DNA
 27 <213> ORGANISM: Human GPR56-1(TSR32)
 29 <220> FEATURE:
 30 <221> NAME/KEY: CDS
 31 <222> LOCATION: (163)..(2241)
 32 <223> OTHER INFORMATION:
 35 <400> SEQUENCE: 1
 36 cggcagcagg gtctcgctct gtcacacagg ctggagtgcg gtgggtgtat cttggctcat 60
 38 cgtaacccccc acctccccggg ttcaagtgtat tctcatgcct cagcctcccg agtagctggg 120
 40 attacaggtg gtgacttcca agagtgactc cgtcgagga aa atg act ccc cag 174
 41 Met Thr Pro Gln
 42 1
 44 tcg ctg ctg cag acg aca ctg ttc ctg agt ctg ctc ttc ctg gtc 222
 45 Ser Leu Ile Gln Thr Thr Leu Phe Leu Leu Ser Leu Leu Phe Leu Val
 46 5 10 15 20
 48 caa ggt gcc cac ggc agg ggc cac agg gaa gac ttt cgc ttc tgc agc 270
 49 Gln Gly Ala His Gly Arg His Arg Glu Asp Phe Arg Phe Cys Ser
 50 25 30 35
 52 cag cgg aac cag aca cac agg agc agc ctc cac tac aaa ccc aca cca 318
 53 Gln Arg Asn Gln Thr His Arg Ser Ser Leu His Tyr Lys Pro Thr Pro
 54 40 45 50
 56 gac ctg cgc atc atc gag aac tcc gaa gag gcc ctc aca gtc cat 366
 57 Asp Leu Arg Ile Ser Ile Glu Asn Ser Glu Glu Ala Leu Thr Val His
 58 55 60 65
 60 gcc cct ttc cct gca gcc cac cct gct tcc cga tcc ttc cct gac ccc 414
 61 Ala Pro Phe Pro Ala Ala His Pro Ala Ser Arg Ser Phe Pro Asp Pro

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62	70	75	80	
64	agg ggc ctc tac cac ttc tgc ctc tac tgg aac cga cat gct ggg aga			462
65	Arg Gly Leu Tyr His Phe Cys Leu Tyr Trp Asn Arg His Ala Gly Arg			
66	85	90	95	100
68	tta cat ctt ctc tat ggc aag cgt gac ttc ttg ctg agt gac aaa gcc			510
69	Leu His Leu Leu Tyr Gly Lys Arg Asp Phe Leu Leu Ser Asp Lys Ala			
70	105	110	115	
72	tct agc ctc ctc tgc ttc cag cac cag gag gag agc ctg gct cag ggc			558
73	Ser Ser Leu Leu Cys Phe Gln His Gln Glu Glu Ser Leu Ala Gln Gly			
74	120	125	130	
76	ccc ccg ctg tta gcc act tct gtc acc tcc tgg tgg agc cct cag aac			606
77	Pro Pro Leu Leu Ala Thr Ser Val Thr Ser Trp Trp Ser Pro Gln Asn			
78	135	140	145	
80	atc agc ctg ccc agt gcc gcc agc ttc acc ttc tcc ttc cac agt cct			654
81	Ile Ser Leu Pro Ser Ala Ala Ser Phe Thr Phe Ser Phe His Ser Pro			
82	150	155	160	
84	ccc cac acg gcc gct cac aat gcc tcg gtg gac atg tgc gag ctc aaa			702
85	Pro His Thr Ala Ala His Asn Ala Ser Val Asp Met Cys Glu Leu Lys			
86	165	170	175	180
88	agg gac ctc cag ctg ctc agc cag ttc ctg aag cat ccc cag aag gcc			750
89	Arg Asp Leu Gln Leu Leu Ser Gln Phe Leu Lys His Pro Gln Lys Ala			
90	185	190	195	
92	tca agg agg ccc tcg gct gcc ccc gcc agc cag cag ttg cag agc ctg			798
93	Ser Arg Arg Pro Ser Ala Ala Pro Ala Ser Gln Gln Leu Gln Ser Leu			
94	200	205	210	
96	gag tcg aaa ctg acc tct gtg aga ttc atg ggg gac atg gtg tcc ttc			846
97	Glu Ser Lys Leu Thr Ser Val Arg Phe Met Gly Asp Met Val Ser Phe			
98	215	220	225	
100	gag gag gac cgg atc aac gcc acg gta tgg aag ctc cag ccc aca gcc			894
101	Glu Glu Asp Arg Ile Asn Ala Thr Val Trp Lys Leu Gln Pro Thr Ala			
102	230	235	240	
104	ggc ctc cag gac ctg cac atc cac tcc cgg cag gag gag gag cag agc			942
105	Gly Leu Gln Asp Leu His Ile His Ser Arg Gln Glu Glu Gln Ser			
106	245	250	255	260
108	gag atc atg gag tac tcg gtg ctg ctg cct cga aca ctc ttc cag agg			990
109	Glu Ile Met Glu Tyr Ser Val Leu Leu Pro Arg Thr Leu Phe Gln Arg			
110	265	270	275	
112	acg aaa ggc cgg agc ggg gag gct gag aag aga ctc ctc ctg gtg gac			1038
113	Thr Lys Gly Arg Ser Gly Glu Ala Glu Lys Arg Leu Leu Val Asp			
114	280	285	290	
116	ttc agc agc caa gcc ctg ttc cag gac aag aat tcc agc caa gtc ctg			1086
117	Phe Ser Ser Gln Ala Leu Phe Gln Asp Lys Asn Ser Ser Gln Val Leu			
118	295	300	305	
120	ggt gag aag gtc ttg ggg att gtg gta cag aac acc aaa gta gcc aac			1134
121	Gly Glu Lys Val Leu Gly Ile Val Val Gln Asn Thr Lys Val Ala Asn			
122	310	315	320	
124	ctc acg gag ccc gtg gtg ctc act ttc cag cac cag cta cag ccg aag			1182
125	Leu Thr Glu Pro Val Val Leu Thr Phe Gln His Gln Leu Gln Pro Lys			
126	325	330	335	340

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128 aat gtg act ctg caa tgt gtg ttc tgg gtt gaa gac ccc aca ttg agc	1230
129 Asn Val Thr Leu Gln Cys Val Phe Trp Val Glu Asp Pro Thr Leu Ser	
130 345 350 355	
132 agc ccg ggg cat tgg agc agt gct ggg tgt gag acc gtc agg aga gaa	1278
133 Ser Pro Gly His Trp Ser Ser Ala Gly Cys Glu Thr Val Arg Arg Glu	
134 360 365 370	
136 acc caa aca tcc tgc ttc tgc aac cac ttg acc tac ttt gca gtg ctg	1326
137 Thr Gln Thr Ser Cys Phe Cys Asn His Leu Thr Tyr Phe Ala Val Leu	
138 375 380 385	
140 atg gtc tcc tcg gtg gag gtc gac gcc gtg cac aag cac tac ctg agc	1374
141 Met Val Ser Ser Val Glu Val Asp Ala Val His Lys His Tyr Leu Ser	
142 390 395 400	
144 ctc ctc tcc tac gtg ggc tgt gtc gtc tct gcc ctg gcc tgc ctt gtc	1422
145 Leu Leu Ser Tyr Val Gly Cys Val Val Ser Ala Leu Ala Cys Leu Val	
146 405 410 415 420	
148 acc att gcc gcc tac ctc tgc tcc agg gtg ccc ctg ccg tgc agg agg	1470
149 Thr Ile Ala Ala Tyr Leu Cys Ser Arg Val Pro Leu Pro Cys Arg Arg	
150 425 430 435	
152 aaa cct cgg gac tac acc atc aag gtg cac atg aac ctg ctg ctg gcc	1518
153 Lys Pro Arg Asp Tyr Thr Ile Lys Val His Met Asn Leu Leu Ala	
154 440 445 450	
156 gtc ttc ctg ctg gac acg agc ttc ctc agc gag ccg gtg gcc ctg	1566
157 Val Phe Leu Leu Asp Thr Ser Phe Leu Leu Ser Glu Pro Val Ala Leu	
158 455 460 465	
160 aca ggc tct gag gct ggc tgt cga gcc agt gcc atc ttc ctg cac ttc	1614
161 Thr Gly Ser Glu Ala Gly Cys Arg Ala Ser Ala Ile Phe Leu His Phe	
162 470 475 480	
164 tcc ctg ctc acc tgc ctt tcc tgg atg ggc ctc gag ggg tac aac ctc	1662
165 Ser Leu Leu Thr Cys Leu Ser Trp Met Gly Leu Glu Gly Tyr Asn Leu	
166 485 490 495 500	
168 tac cga ctc gtg gtg gag gtc ttt ggc acc tat gtc cct ggc tac cta	1710
169 Tyr Arg Leu Val Val Glu Val Phe Gly Thr Tyr Val Pro Gly Tyr Leu	
170 505 510 515	
172 ctc aag ctg agc gcc atg ggc tgg ggc ttc ccc atc ttt ctg gtg acg	1758
173 Leu Lys Leu Ser Ala Met Gly Trp Gly Phe Pro Ile Phe Leu Val Thr	
174 520 525 530	
176 ctg gtg gcc ctg gtg gat gtg gac aac tat ggc ccc atc atc ttg gct	1806
177 Leu Val Ala Leu Val Asp Val Asp Asn Tyr Gly Pro Ile Ile Leu Ala	
178 535 540 545	
180 gtg cat agg act cca gag ggc gtc atc tac cct tcc atg tgc tgg atc	1854
181 Val His Arg Thr Pro Glu Gly Val Ile Tyr Pro Ser Met Cys Trp Ile	
182 550 555 560	
184 cgg gac tcc ctg gtc agc tac atc acc aac ctg ggc ctc ttc agc ctg	1902
185 Arg Asp Ser Leu Val Ser Tyr Ile Thr Asn Leu Gly Leu Phe Ser Leu	
186 565 570 575 580	
188 gtg ttt ctg ttc aac atg gcc atg cta gcc acc atg gtg gtg cag atc	1950
189 Val Phe Leu Phe Asn Met Ala Met Leu Ala Thr Met Val Val Gln Ile	
190 585 590 595	
192 ctg cgg ctg cgc ccc cac acc caa aag tgg tca cat gtg ctg aca ctg	1998

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193	Leu	Arg	Leu	Arg	Pro	His	Thr	Gln	Lys	Trp	Ser	His	Val	Leu	Thr	Leu	
194					600				605					610			
196	ctg	ggc	ctc	agc	ctg	gtc	ctt	ggc	ctg	ccc	tgg	gcc	ttg	atc	ttc	tcc	2046
197	Leu	Gly	Leu	Ser	Leu	Val	Leu	Gly	Leu	Pro	Trp	Ala	Leu	Ile	Phe	Phe	
198					615				620					625			
200	tcc	ttt	gct	tct	ggc	acc	ttc	cag	ctt	gtc	gtc	ctc	tac	ctt	ttc	agc	2094
201	Ser	Phe	Ala	Ser	Gly	Thr	Phe	Gln	Leu	Val	Val	Leu	Tyr	Leu	Phe	Ser	
202					630				635					640			
204	atc	atc	acc	tcc	ttc	caa	ggc	ttc	ctc	atc	ttc	atc	tgg	tac	tgg	tcc	2142
205	Ile	Ile	Thr	Ser	Phe	Gln	Gly	Phe	Leu	Ile	Phe	Ile	Trp	Tyr	Trp	Ser	
206	645				650				655					660			
208	atg	cgg	ctg	cag	gcc	cgg	ggt	ggc	ccc	tcc	cct	ctg	aag	agc	aac	tca	2190
209	Met	Arg	Leu	Gln	Ala	Arg	Gly	Gly	Pro	Ser	Pro	Leu	Lys	Ser	Asn	Ser	
210					665				670					675			
212	gac	tgc	gcc	agg	ctc	ccc	atc	agc	tgc	ggc	agc	acc	tgc	agc	cgc		2238
213	Asp	Cys	Ala	Arg	Leu	Pro	Ile	Ser	Ser	Gly	Ser	Thr	Ser	Ser	Ser	Arg	
214					680				685					690			
216	atc	taggcctcca	gccccacctgc	ccatgtgatg	aaggcagagat	gcggcctcggt											2291
217	Ile																
220	cgcacactgc	ctgtggccccc	cgagccaggc	ccagccccag	gccagtca	gcgcagacttt											2351
222	ggaaagccca	acgaccatgg	agagatggc	cggtgc	ccatg	gtggacggac	tccggggct										2411
224	ggggctttt	g	aattggc	ttt	ggggactact	cggtctcac	tca	gctccca	cggtactc	ag	ggactc	ag	ggactc	ag	ggactc	ag	2471
226	aagtgc	cccg	ccatg	ctgc	tagggtact	tcc	ccacatc	tgtccca	acc	cag	ctggagg	2531					
228	cctgg	tc	cctt	aca	acc	cctgg	ccca	gcctc	attgc	tgggg	ccag	gccttggatc	2591				
230	ttgagggt	tct	ggc	acatc	cct	taatc	ctgt	ccc	ctgc	tgt	ggac	agaaaat	gtgg	ctcc	ag	2651	
232	ttg	ctc	tc	tct	gtgtc	acc	ctg	gagg	gg	act	ctgc	tcat	ttt	aac	ctca	2711	
234	gttgg	ccac	cc	agg	gcata	gg	ggcc	ccagg	gg	ac	cttca	ggcc	ccagg	gc	cctgg	ccgg	2771
236	gagagg	ccct	tt	ggcc	agg	gg	cac	agc	ga	gc	gtc	gc	ctc	tg	agccc	g	2822
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240	<211>	LENGTH:	693														
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242	<213>	ORGANISM:	Human GPR56-1(TSR32)														
244	<400>	SEQUENCE:	2														
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247	1				5				10					15			
250	Leu	Phe	Leu	Val	Gln	Gly	Ala	His	Gly	Arg	Gly	His	Arg	Glu	Asp	Phe	
251					20				25					30			
254	Arg	Phe	Cys	Ser	Gln	Arg	Asn	Gln	Thr	His	Arg	Ser	Ser	Leu	His	Tyr	
255					35				40					45			
258	Lys	Pro	Thr	Pro	Asp	Leu	Arg	Ile	Ser	Ile	Glu	Asn	Ser	Glu	Glu	Ala	
259					50				55					60			
262	Leu	Thr	Val	His	Ala	Pro	Phe	Pro	Ala	Ala	His	Pro	Ala	Ser	Arg	Ser	
263					65				70					75			80
266	Phe	Pro	Asp	Pro	Arg	Gly	Leu	Tyr	His	Phe	Cys	Leu	Tyr	Trp	Asn	Arg	
267					85				90					95			
270	His	Ala	Gly	Arg	Leu	His	Leu	Leu	Tyr	Gly	Lys	Arg	Asp	Phe	Leu	Leu	
271					100				105					110			
274	Ser	Asp	Lys	Ala	Ser	Ser	Leu	Leu	Cys	Phe	Gln	His	Gln	Glu	Glu	Ser	
275					115				120					125			

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278 Leu Ala Gln Gly Pro Pro Leu Leu Ala Thr Ser Val Thr Ser Trp Trp
279 130 135 140
282 Ser Pro Gln Asn Ile Ser Leu Pro Ser Ala Ala Ser Phe Thr Phe Ser
283 145 150 155 160
286 Phe His Ser Pro Pro His Thr Ala Ala His Asn Ala Ser Val Asp Met
287 165 170 175
290 Cys Glu Leu Lys Arg Asp Leu Gln Leu Leu Ser Gln Phe Leu Lys His
291 180 185 190
294 Pro Gln Lys Ala Ser Arg Arg Pro Ser Ala Ala Pro Ala Ser Gln Gln
295 195 200 205
298 Leu Gln Ser Leu Glu Ser Lys Leu Thr Ser Val Arg Phe Met Gly Asp
299 210 215 220
302 Met Val Ser Phe Glu Glu Asp Arg Ile Asn Ala Thr Val Trp Lys Leu
303 225 230 235 240
306 Gln Pro Thr Ala Gly Leu Gln Asp Leu His Ile His Ser Arg Gln Glu
307 245 250 255
310 Glu Glu Gln Ser Glu Ile Met Glu Tyr Ser Val Leu Leu Pro Arg Thr
311 260 265 270
314 Leu Phe Gln Arg Thr Lys Gly Arg Ser Gly Glu Ala Glu Lys Arg Leu
315 275 280 285
318 Leu Leu Val Asp Phe Ser Ser Gln Ala Leu Phe Gln Asp Lys Asn Ser
319 290 295 300
322 Ser Gln Val Leu Gly Glu Lys Val Leu Gly Ile Val Val Gln Asn Thr
323 305 310 315 320
326 Lys Val Ala Asn Leu Thr Glu Pro Val Val Leu Thr Phe Gln His Gln
327 325 330 335
330 Leu Gln Pro Lys Asn Val Thr Leu Gln Cys Val Phe Trp Val Glu Asp
331 340 345 350
334 Pro Thr Leu Ser Ser Pro Gly His Trp Ser Ser Ala Gly Cys Glu Thr
335 355 360 365
338 Val Arg Arg Glu Thr Gln Thr Ser Cys Phe Cys Asn His Leu Thr Tyr
339 370 375 380
342 Phe Ala Val Leu Met Val Ser Ser Val Glu Val Asp Ala Val His Lys
343 385 390 395 400
346 His Tyr Leu Ser Leu Leu Ser Tyr Val Gly Cys Val Val Ser Ala Leu
347 405 410 415
350 Ala Cys Leu Val Thr Ile Ala Ala Tyr Leu Cys Ser Arg Val Pro Leu
351 420 425 430
354 Pro Cys Arg Arg Lys Pro Arg Asp Tyr Thr Ile Lys Val His Met Asn
355 435 440 445
358 Leu Leu Leu Ala Val Phe Leu Leu Asp Thr Ser Phe Leu Leu Ser Glu
359 450 455 460
362 Pro Val Ala Leu Thr Gly Ser Glu Ala Gly Cys Arg Ala Ser Ala Ile
363 465 470 475 480
366 Phe Leu His Phe Ser Leu Leu Thr Cys Leu Ser Trp Met Gly Leu Glu
367 485 490 495
370 Gly Tyr Asn Leu Tyr Arg Leu Val Val Glu Val Phe Gly Thr Tyr Val
371 500 505 510
374 Pro Gly Tyr Leu Leu Lys Leu Ser Ala Met Gly Trp Gly Phe Pro Ile

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date